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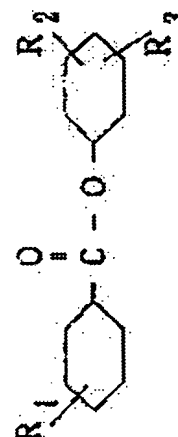
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## (54) SYNTHETIC LUBRICATING FLUID

(57)Abstract:

PURPOSE: To obtain a synthetic lubricating having an excellent traction coefficient for a power transmission gear, by incorporating a poly( $\alpha$ -olefin) having a branched chain to a specific synthetic naphthenic ester.

CONSTITUTION: A synthetic lubricant comprising a cyclohexanol cyclohexanecarboxylate of the formula (wherein R1, R2 and R3 are each H or a 1W8C alkyl) or its derivative and, incorporated therein, 1W70pts.wt., preferably 10W50pts.wt. poly( $\alpha$ -olefin) having a branched chain. The ester can be prepared by reacting cyclohexane-carboxylic acid or its derivative with an excess amount of cyclohexanol or its derivative in the presence of a catalyst such as phosphoric acid while blowing an inert gas such as nitrogen. Particularly preferred poly( $\alpha$ -olefin) is polyisobutylene and its hydrogenated product, and the molecular weight is preferably 500W10,000.



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